

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D119-756 Rev F/IIN-D119-756-EASA Rev A and
INSTRUCTION FOR CONTINUED AIRWORTHINESS ICA-D119-756 Rev 3/ICA-D119-756-EASA Rev 0

REF TCCA STC: SH06-39

FAA STC: SR02364NY

EASA STC: 10016908

PRELIMINARY ISSUE

PURPOSE

The purpose of this Service Instruction is to introduce the D119-756-111 Clamp Kit, which allows the installation of the D119-756-041 Heli-Utility-Basket on AW119 MKII aircraft fitted with Dart D119-796-XXX Crosstubes. The D119-756-111 Clamp Kit can be procured from Dart Aerospace. One Kit installs one basket.

This DSI also introduces the DSI 9729-011 Clevis Kit which improves the installation of the D119-756-041 Heli-Utility-Basket on AW119 aircraft fitted with Dart D119-646-XXX Skidtubes. The DSI 9729-011 Clevis Kit can be procured from Dart Aerospace. One Kit installs one basket.

CHANGE

The D119-756-011 Clamp Kit is replaced with the D119-756-111 Clamp Kit (D5283-041/-7/-043/-11 Clamps). The modified parts list for Installation Instructions IIN-D119-756 and Instructions for Continued Airworthiness ICA-D119-756 are shown on sheet 4 of this service instruction. Install the Clamp Kit as shown in Figures 1, 2 and 3 of this service instruction.

The DSI 9729-011 Clevis Kit replaces the D3516-11 Clevis and D3520-3 Spacer mounted on Dart Skidtube saddles. The modified parts list for Installation Instructions IIN-D119-756 and Instructions for Continued Airworthiness ICA-D119-756 are shown on sheet 4 of this service instruction. Install the Clevis Kit as shown in Figure 1 of this service instruction.

5.0 WEIGHT AND BALANCE (IIN-D119-756 Rev F/IIN-D119-756-EASA Rev A)

25.4 WEIGHT AND BALANCE (ICA-D119-756 Rev 3/ICA-D119-756-EASA Rev 0)

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		ARM	MOMENT	ARM	MOMENT
D119-756-111 CLAMP KIT	1.3 lb 0.6 kg	±24.5 in ±0.62 m	33.2 lb-in 0.37 kg-m	120.0 in 3.05 m	156 lb-in 1.83 kg-m
DSI 9729-011 CLEVIS KIT	DOES NOT AFFECT WEIGHT AND BALANCE				

INSTALLATION: D119-756-111 Clamp Kit

- The D119-756-041 Heli-Utility-Basket may only be installed on the RH side of the AW119 MKII aircraft
- Remove the bottom MS21250-05048 bolt, NAS1149C0532R (2) washers, D3672-7 (2) phenolic washers and MS21043-5 nut on each saddle. Discard one NAS1149C0532R washer. Install qty (2) D5287-1 Clevis using the retained fasteners as per Figure 1. Assemble with the D3672-7 phenolic washer between the Clevis and the Saddle.
- Loosely install the D5283-041/D5283-7 Clamp on the Aft Crosstube and the D5283-043/D5283-11 Clamp on the Fwd Crosstube using the supplied hardware. D2732-032 Rubber Cushions must be installed under each side of the clamps.

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	_____
D. SHEPHERD (DE # 02)	
DATE:	15.07.02
CERT. NO.:	SH06-39
ISSUE NO.:	2

A	NEW ISSUE	DB	15.07.02	
REV.	DESCRIPTION	BY	DATE	
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	DB			
CHECKED		DRAWING NO.	REV. PA1	
MFG. APPR.		DSI 9729	SHEET 1 OF 4	
APPROVED		TITLE	AW119 MKII BASKET	
DE APPR.		COMPATIBILITY	SCALE	
DATE	15.07.02		NTS	
COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.				

4. Install a D3518-041 Strut Assembly to each of the D5283-041 and -043 Clamps as show in Figure 2.
NOTE: The AFT clevises on the bottom of the basket have been oversized to accomodate variations between landing gear. Use NAS1149D0463J Washers as spacers to fill the space as shown in Figure 1. Mount qty (2) D3517-1 Struts to the basket as shown in Figure 1.
5. Mount the D3517-1 Struts assembled on the basket to the D5287-1 Clevis mounted on the Skidtube saddles and secure using AN4-12A Bolts, NAS1149D0463 Washers (2) and MS21042L4 Nuts.
6. Pivot the Basket upwards and attach it to the qty (2) D3518-041 Strut Assemblies using AN4-15A Bolts, NAS1149D0463J Washers (2) and MS21042L4 Nuts for each Strut. See Figures 2 and 3.
7. Torque nuts on all AN4 Bolts to 50-70 in-lbs (5.5-8.0 Nm). CAUTION-Over-torquing could lead to damage of the clamps.

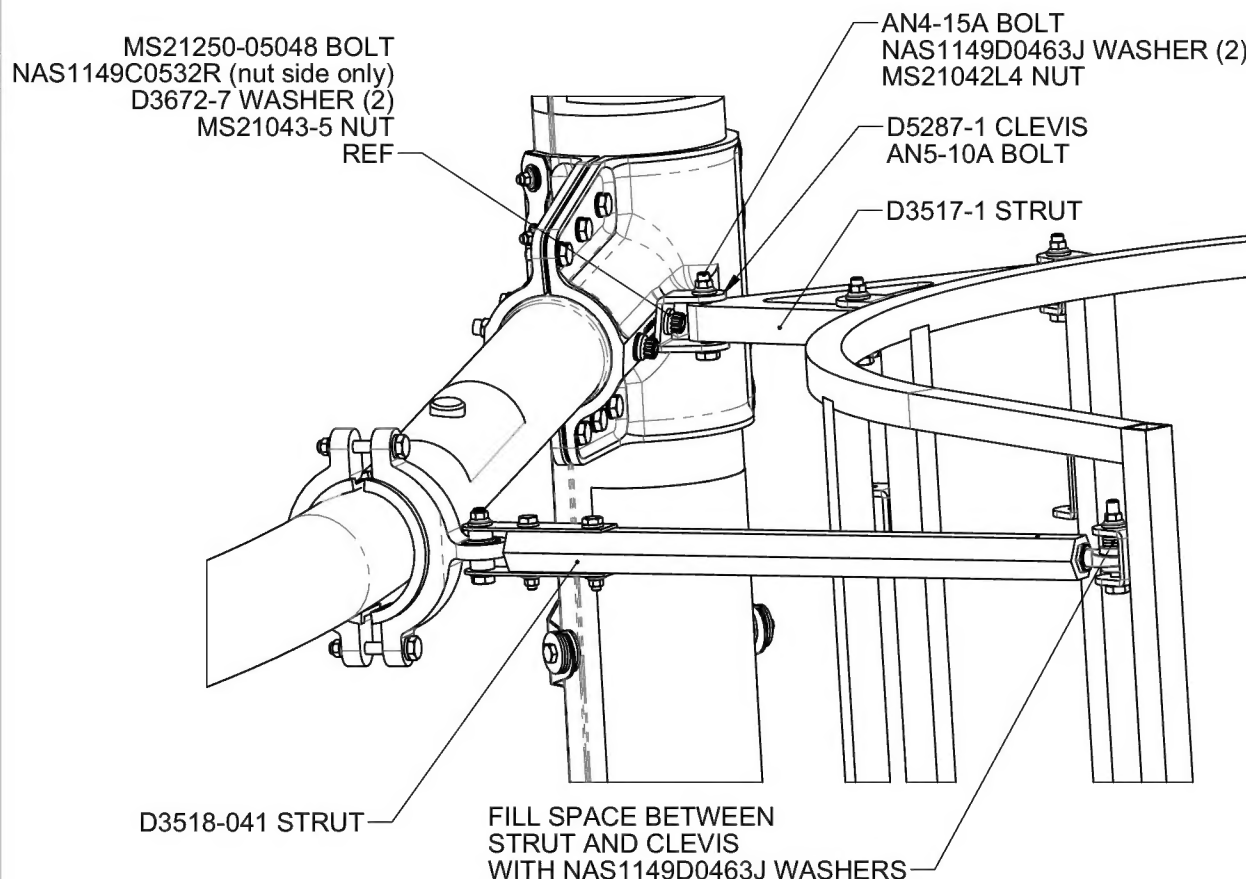


FIGURE 1: CLEVIS/STRUT INSTALLATION
(BASKET FEATURES REMOVED FOR CLARITY)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
D. SHEPHERD (DE # 02)

DATE: 15.07.02
CERT. NO.: SH06-39
ISSUE NO.: 2

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DB		
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		DSI 9729	SHEET 2 OF 4
APPROVED		TITLE	AW119 MKII BASKET
DE APPR.		COMPATIBILITY	SCALE NTS
DATE	15.07.02	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

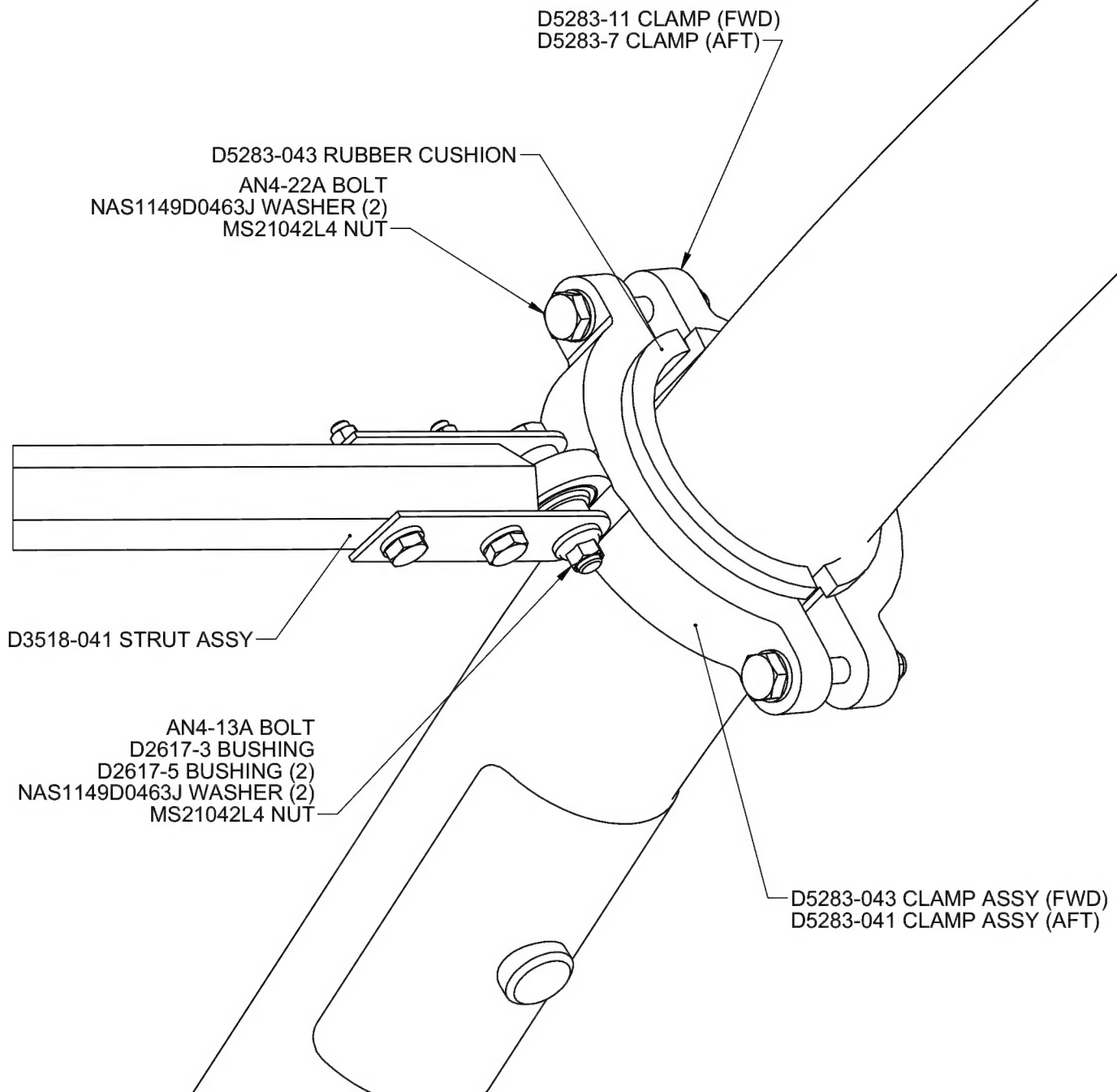


FIGURE 2: CLAMP INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
D. SHEPHERD (DE # 02)

DATE: 15.07.02
CERT. NO.: SH06-39
ISSUE NO.: 2

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DB		
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		DSI 9729	SHEET 3 OF 4
APPROVED		TITLE	AW119 MKII BASKET COMPATIBILITY
DE APPR.			SCALE NTS
DATE	15.07.02	COPYRIGHT © 2015 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

	A	B
AW119 MKII FWD	12.0-14.0	21.0
AW119 MKII AFT	12.5-14.5	21.0

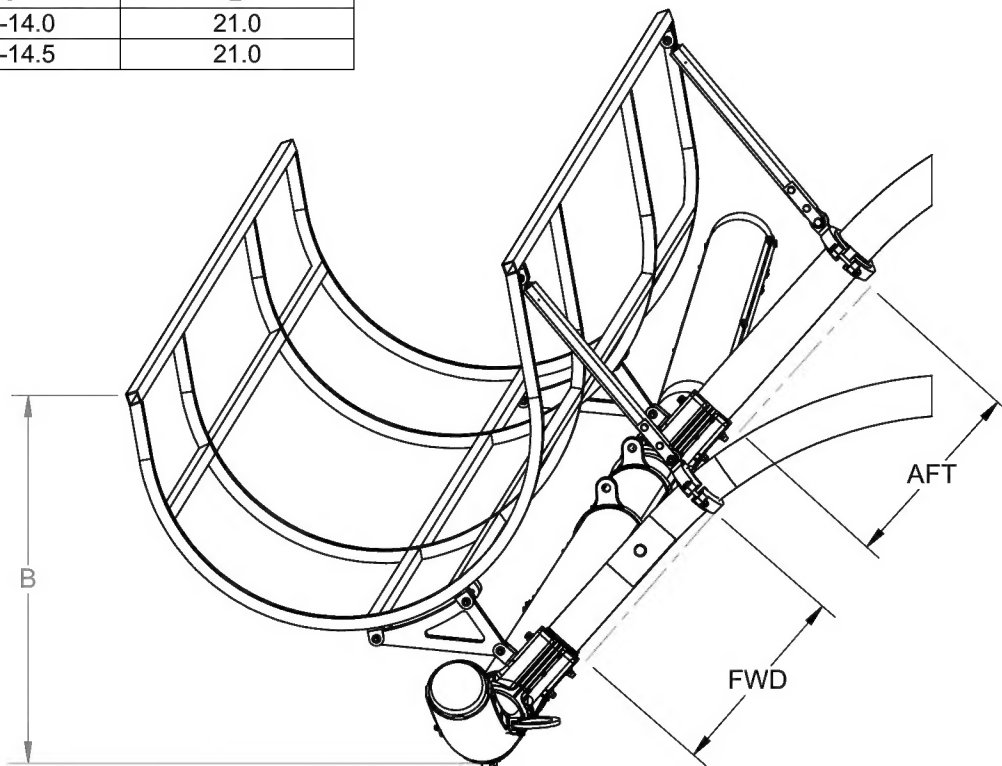


FIGURE 3: INSTALLATION HEIGHTS
(BASKET FEATURES REMOVED FOR CLARITY)

PARTS LIST:

QTY -111	PART NUMBER	DESCRIPTION
X	D119-756-111	CLAMP KIT
4	D2732-032	RUBBER CUSHION
1	D5283-5	CLAMP
1	D5283-11	CLAMP
1	D5283-041	CLAMP ASSY
1	D5283-043	CLAMP ASSY
2	AN4-16A	BOLT
2	AN4-22A	BOLT
8	AN960JD416	WASHER
4	MS21042L4	NUT

QTY- 011	PART NUMBER	DESCRIPTION
X	DSI 9729-011	CLEVIS KIT
2	D5287-1	CLEVIS

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
D. SHEPHERD (DE # 02)

DATE: 15.07.02
CERT. NO.: SH06-39
ISSUE NO.: 2

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DB		
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		DSI 9729	SHEET 4 OF 4
APPROVED		TITLE	AW119 MKII BASKET COMPATIBILITY
DE APPR.			SCALE NTS
DATE	15.07.02	COPYRIGHT © 2015 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	